2006 Prequalification Category Descriptions and Requirements

Note: All categories that require individual Professional Engineer or Architect Licenses require at least one of the Licensed Engineers or Architects to be registered in the State of Connecticut as well as the firm to hold the appropriate Connecticut Corporate Engineering or Architecture License if applicable. Current copies of these and required certifications and registrations must be included in your submittal in order to be prequalified in these categories – no exceptions. Please attach all required current licenses, registrations and certifications in a separate section of your prequalification submittal.

1. Airport Management
   Airport management, financial assessment and lease analysis

2. Airport Planning and Studies
   Preparation of system plans, master plans, layout plans or other types of studies including demand analysis, facility needs and feasibility, economic and environmental analysis

3. Airport Design
   Design of runways, taxiways, aprons, and electrical systems
   License Requirement: Professional Engineers

4. Bridge and Structure Inspection
   Biennial structural inspection and rating of highway and railroad bridges, structural inspection of signal and sign supports, towers, piers, wharves, buildings and special structures
   License Requirement: Professional Engineers

5. Bridge and Structure Inspection (Underwater)
   Inspection of the underwater components of any bridge or structure including inspection of above water components, and construction activities
   License Requirement: Professional Engineers

6. Bridge and Structure Design
   Design of highway and railroad bridges, culverts, sign and signalization supports, towers, structural repairs, and special structures
   License Requirement: Professional Engineers

7. Coatings Inspection
   Inspection of painting/coating of bridges, coating failure analysis, specification preparation and review, coating system review and recommendations, laboratory analysis, containment analysis for worker protection in hazardous paint removal environments, training in coatings inspection and other related services and expert witness testimony
   License Requirement: Professional Engineers
   Certification Requirement: NACE Coatings Inspectors

8. Construction Engineering and Inspection (Road, Bridge, and Aviation)
   Resident inspection, constructability reviews, cost estimating, quality assurance reviews, construction survey and office engineering for road, bridge, traffic, illumination or lighting, and aviation construction projects
   License Requirement: Professional Engineers
   Requirements for Inspection staff: NICET certification at Level II or above, or a Professional EIT License

9. Construction Engineering and Inspection (Facilities)
   Resident inspection, constructability reviews, cost estimating, quality assurance reviews, construction survey and office engineering for all types of facilities, including railroad stations, buildings, bus maintenance and storage facilities, parking structures, warehouses, and terminals, piers, wharves, and ferry facilities
   License Requirement: Professional Engineers

Requirements for Inspection staff: NICET certification at Level II or above, or a Professional EIT License

10. Construction Engineering and Inspection (Rail)
    Resident inspection, construction survey and office engineering for track, power, catenary, communications and signals
    License Requirement: Professional Engineers
    Requirements for Inspection staff: NICET certification at Level II or above, or a Professional EIT License

11. Environmental Compliance (Asbestos, Paint)
    Conduct asbestos, lead and household hazardous waste investigations, preparation of design plans for abatement, waste removal and structure demolition, inspection and compliance services during abatement and demolition, and air quality compliance
    License Requirements: Professional Engineers; CT Asbestos Consultant-Inspector/Management Planner; CT Asbestos Consultant-Project Designer; CT Asbestos Consultant-Project Monitor
    Certification Requirements: CT Lead Planner-Project Designer; CT Lead Inspector; CT Lead Inspector Risk Assessor; Industrial Hygenist
    Registration Requirement: Asbestos Analyst
    NOTE: one person can hold all of the requirements for this category

12. Environmental Compliance (Soil, Groundwater)
    Provide regulatory compliance services, environmental site evaluations, subsurface site investigations, water quality monitoring, soil and groundwater remediation designs, inspection and environmental compliance oversight during construction and remediation
    License Requirements: Professional Engineers; CT Environmental Professionals
    Certification Requirements: Industrial Hygienist or Hazardous Materials Manager
    NOTE: one person can hold all of the requirements for this category

13. Environmental Planning and Studies
    Environmental Impact Statements and Assessments for all modes, wetland delineation and studies, stormwater management, water resources, land use, ecological, noise, air quality and historic/archaeological studies

14. Facility Design (Aviation)
    Terminals, maintenance facilities, taxiways, runways, renovations, and ADA compliance
    License Requirement: Professional Engineers and/or Architects

15. Facility Design (Highway)
    Maintenance facilities, salt storage facilities, parking structures, ADA compliance
    License Requirement: Professional Engineers and/or Architects

16. Facility Design (Ports)
    Piers, wharves, docks, warehousing, ferry facilities, renovations, ADA compliance
    License Requirement: Professional Engineers and/or Architects

17. Facility Design (Transit)
    Bus maintenance / storage facilities, stations, terminals, renovations, ADA compliance, park & ride lots
    License Requirement: Professional Engineers and/or Architects

18. Facility Design (Rail)
    Stations, maintenance facilities, pedestrian bridges and tunnels, renovations, ADA compliance and parking lots/structures
    License Requirement: Professional Engineers and/or Architects

19. Freight/Goods Movement Intermodal Planning Studies
    Data collection, demand analysis, alternatives analysis, needs and deficiencies analysis and reports, intermodal connectivity evaluation, including roadway, water, railroad, air transport and economic effect

20. Highway Design
    Roads, drainage, hydraulics, geotechnical and subsurface investigations, landscape architecture, illumination, incidental structures, property mapping, title searching, environmental permitting and stormwater certification, contract development, and cost estimating
    License Requirement: Professional Engineers

21. Intelligent Transportation Systems (ITS)
    Preparation and design of ITS including traffic management systems, operations center modifications, incident management systems, diversion routes, operational systems development including system integration, maintenance and repair
    License Requirement: Professional Engineers

22. Port Management
    Port planning, operational management, financial assessment and lease analysis

23. Rail Design
    Track, power, catenary, rolling stock specification development and inspection, communications and signals
    License Requirement: Professional Engineers

24. Railroad Station Management
    Railroad station operations management, financial assessment, lease analysis and marketing

25. Traffic Engineering
    Operational analysis, traffic signals and signal systems, signing, pavement markings, traffic data collection, accident analysis, traffic studies, railroad-highway grade crossings, safety improvements, and maintenance and protection of traffic
    License Requirement: Professional Engineers

26. Transit Planning and Studies (Rail & Bus)
    Demand analysis, alternatives analysis, system needs and feasibility studies and plans, service design and management studies, marketing/maintenance studies and plans, financing needs and options, and implementation plans

27. Transportation Planning Studies (Rail, Bus, Roadway, Aviation, Bicycle/Pedestrian, Rideshare and Waterway)
    Transportation forecasting and modeling, alternatives analysis, reports and studies, intermodal planning and studies, needs and feasibility studies, transportation and land use studies, financing needs and options, implementation plans, and public involvement/public acceptability related studies and reports

28. Waste Treatment Design
    Water pollution control facilities, sewer evaluation and design, and septic system design
    License Requirement: Professional Engineers